Mohit Soni

US Citizen · mohitksoni@outlook.com · 425-605-0035 · MohitSoni11.github.io · LinkedIn

Education

Cornell University   Ithaca, NY
Computer Science in the College of Engineering, GPA - 3.85   May 2026

Work Experience

BrickRed Systems   Seattle, WA
AI Software Developer Intern   May 2024 - Aug 2024
- Contributed to development of EchoMD, an AI-powered platform designed to revolutionize healthcare and patient record documentation, as part of a team of 25 people.
- Developed and fine-tuned 10+ Natural Language Processing algorithms in Python to accurately transcribe doctor-patient dialogues. Trained and deployed models using TensorFlow.
- Implemented backend services using Django & Flask. Developed RESTful APIs to handle real-time data processing and ensure efficient storage of transcribed data.
- Enabled healthcare professionals to focus more on patient care by automating the Electronic Medical Record process, leading to a 30% reduction in documentation time and a 25% increase in record accuracy.

Cornell University   Ithaca, NY
Researcher   Nov 2023 - Present
- Mentored by Professor Madhur Srivastava as part of the Signal Science Lab.
- Leading development of an algorithm to discern flaws in cricket batsman's techniques through detailed video analysis. Research aims to enhance player performance, reduce training time, and provide personalized feedback for targeted skill improvement.
- Crafted an innovative algorithm for video segmentation analyzing 100+ hours of video footage, employing pose estimation and dynamic time warping to filter out redundant frames, preserving relevant movements.

Outlier   Remote
Independent Contractor   Nov 2023 - Present
- Responsible for reviewing and coding computer science tasks, earning based on accuracy of submissions.
- Simultaneously managing 12 projects involving Java, Python, JavaScript, C#, C++, SQL, PHP, etc.
- Successfully completed 100+ tasks maintaining a high accuracy.

SparkSIP   Remote
Machine Learning Intern   Jun 2022 - Sep 2022
- Classified DNA electrical signatures to their code using Random Forests, Neural Networks, and SVMs.
- Presented progress to 2 University of Washington Seattle Professors using PowerBI.
- Wrote in-depth 9-page research paper summarizing my methods and results.

Project Sidewalk - Makeability Lab at the University of Washington Seattle   Seattle, WA
Web Development & Machine Learning Intern   Apr 2022 - Sep 2022
- Fixed 20+ bugs involving JavaScript, Scala, CSS, and HTML.
- Managed GitHub repository with a 40-member team.
- Cleaned data using Excel & Python and presented insights to computer vision team.

Skills

Web Development: Bootstrap, React, Streamlit, EJS, Flask, Node.js, Express.js, Django, SQL, MongoDB
Data Science: Python, PowerBI, Pandas, Numpy, Tensorflow, Scikit-learn, NLTK, Plotly, NLP
Additional: Java, C++, Visual Studio Code, AWS, Jupyter Notebooks, Google Colab, Kaggle

Projects

Inventory Management System *Node.js, MongoDB, React, AWS, EJS, Tailwind*   Link unavailable due to NDA
Freelanced a full-stack app for a retail store to efficiently manage inventory, featuring real-time stock updates, order processing, sales tracking, and moving average price management. Integrated AWS for cloud storage.

ML Model Insights App *Streamlit, Pandas, Numpy, Matplotlib, Scikit-learn*   https://algo-insights.streamlit.app/
An interactive application that allows users to quickly evaluate multiple ML models on an uploaded/chosen dataset through intuitive visualizations and performance metrics – no coding required. 10+ monthly users.

Morning Star Web Scraping Website *Flask, SQLite, Selenium*   https://tinyurl.com/mrx9mvya
An application that scrapes Morningstar for financial data based on user-saved tickers stored in a database. The website allows users to add or delete tickers and refresh the displayed data for real-time updates.

Valuable Courses

CS 4780 (Cornell University) Learned mathematical basis of machine learning models/concepts such as KNN, Naïve Bayes, SVMs, Kernels, Ensembles, Neural Networks, Bias vs. Variance, etc.   May 2024

The Complete 2022 Web Development Bootcamp (Udemy) Gained expertise in frontend (Bootstrap, React), backend (Node.js, Express.js, EJS), databases (SQL, MongoDB, Mongoose).   Dec 2022